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## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/525,831  
Source: PG  
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# ***ENTERED***



PCT

## RAW SEQUENCE LISTING

DATE: 01/24/2006

PATENT APPLICATION: US/10/525,831

TIME: 10:36:43

Input Set : A:\P26795.ST5.txt

Output Set: N:\CRF4\01052006\J525831.raw

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3 <110> APPLICANT: NAKATSURA, Tetsuya
4   NISHIMURA, Yasuharu
6 <120> TITLE OF INVENTION: CANCER ANTIGEN AND USE THEREOF
8 <130> FILE REFERENCE: P26795
10 <140> CURRENT APPLICATION NUMBER: US 10/525,831
11 <141> CURRENT FILING DATE: 2005-02-25
13 <150> PRIOR APPLICATION NUMBER: National Stage of PCT/JP2003/011049
14 <151> PRIOR FILING DATE: 2003-08-29
16 <150> PRIOR APPLICATION NUMBER: JP2002/255668
17 <151> PRIOR FILING DATE: 2002-08-30
19 <150> PRIOR APPLICATION NUMBER: JP2002/341168
20 <151> PRIOR FILING DATE: 2002-11-25
22 <160> NUMBER OF SEQ ID NOS: 23
24 <170> SOFTWARE: PatentIn version 3.3
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 858
28 <212> TYPE: PRT
29 <213> ORGANISM: Homo sapiens
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41 Arg Cys Thr Pro Ser Val Ile Ser Phe Gly Ser Lys Asn Arg Thr Ile
42          35          40          45
45 Gly Val Ala Ala Lys Asn Gln Gln Ile Thr His Ala Asn Asn Thr Val
46          50          55          60
49 Ser Asn Phe Lys Arg Phe His Gly Arg Ala Phe Asn Asp Pro Phe Ile
50 65          70          75          80
53 Gln Lys Glu Lys Glu Asn Leu Ser Tyr Asp Leu Val Pro Leu Lys Asn
54          85          90          95
57 Gly Gly Val Gly Ile Lys Val Met Tyr Met Gly Glu Glu His Leu Phe
58          100         105         110
61 Ser Val Glu Gln Ile Thr Ala Met Leu Leu Thr Lys Leu Lys Glu Thr
62          115         120         125
65 Ala Glu Asn Ser Leu Lys Lys Pro Val Thr Asp Cys Val Ile Ser Val
66          130         135         140
69 Pro Ser Phe Phe Thr Asp Ala Glu Arg Arg Ser Val Leu Asp Ala Ala
70 145         150         155         160
73 Gln Ile Val Gly Leu Asn Cys Leu Arg Leu Met Asn Asp Met Thr Ala
74          165         170         175
77 Val Ala Leu Asn Tyr Gly Ile Tyr Lys Gln Asp Leu Pro Ser Leu Asp
78          180         185         190

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82      195                200                205
85 Gln Val Ser Ala Cys Ala Phe Asn Lys Gly Lys Leu Lys Val Leu Gly
86      210                215                220
89 Thr Ala Phe Asp Pro Phe Leu Gly Gly Lys Asn Phe Asp Glu Lys Leu
90 225                230                235                240
93 Val Glu His Phe Cys Ala Glu Phe Lys Thr Lys Tyr Lys Leu Asp Ala
94      245                250                255
97 Lys Ser Lys Ile Arg Ala Leu Leu Arg Leu Tyr Gln Glu Cys Glu Lys
98      260                265                270
101 Leu Lys Lys Leu Met Ser Ser Asn Ser Thr Asp Leu Pro Leu Asn Ile
102      275                280                285
105 Glu Cys Phe Met Asn Asp Lys Asp Val Ser Gly Lys Met Asn Arg Ser
106      290                295                300
109 Gln Phe Glu Glu Leu Cys Ala Glu Leu Leu Gln Lys Ile Glu Val Pro
110 305                310                315                320
113 Leu Tyr Ser Leu Leu Glu Gln Thr His Leu Lys Val Glu Asp Val Ser
114      325                330                335
117 Ala Val Glu Ile Val Gly Gly Ala Thr Arg Ile Pro Ala Val Lys Glu
118      340                345                350
121 Arg Ile Ala Lys Phe Phe Gly Lys Asp Ile Ser Thr Thr Leu Asn Ala
122      355                360                365
125 Asp Glu Ala Val Ala Arg Gly Cys Ala Leu Gln Cys Ala Ile Leu Ser
126      370                375                380
129 Pro Ala Phe Lys Val Arg Glu Phe Ser Val Thr Asp Ala Val Pro Phe
130 385                390                395                400
133 Pro Ile Ser Leu Ile Trp Asn His Asp Ser Glu Asp Thr Glu Gly Val
134      405                410                415
137 His Glu Val Phe Ser Arg Asn His Ala Ala Pro Phe Ser Lys Val Leu
138      420                425                430
141 Thr Phe Leu Arg Arg Gly Pro Phe Glu Leu Glu Ala Phe Tyr Ser Asp
142      435                440                445
145 Pro Gln Gly Val Pro Tyr Pro Glu Ala Lys Ile Gly Arg Phe Val Val
146      450                455                460
149 Gln Asn Val Ser Ala Gln Lys Asp Gly Glu Lys Ser Arg Val Lys Val
150 465                470                475                480
153 Lys Val Arg Val Asn Thr His Gly Ile Phe Thr Ile Ser Thr Ala Ser
154      485                490                495
157 Met Val Glu Lys Val Pro Thr Glu Glu Asn Glu Met Ser Ser Glu Ala
158      500                505                510
161 Asp Met Glu Cys Leu Asn Gln Arg Pro Pro Glu Asn Pro Asp Thr Asp
162      515                520                525
165 Lys Asn Val Gln Gln Asp Asn Ser Glu Ala Gly Thr Gln Pro Gln Val
166      530                535                540
169 Gln Thr Asp Ala Gln Gln Thr Ser Gln Ser Pro Ser Pro Glu Leu
170 545                550                555                560
173 Thr Ser Glu Glu Asn Lys Ile Pro Asp Ala Asp Lys Ala Asn Glu Lys
174      565                570                575
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181 Asn Val Glu Leu Pro Ile Glu Ala Asn Leu Val Trp Gln Leu Gly Lys
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185 Asp Leu Leu Asn Met Tyr Ile Glu Thr Glu Gly Lys Met Ile Met Gln
186          610          615          620
189 Asp Lys Leu Glu Lys Glu Arg Asn Asp Ala Lys Asn Ala Val Glu Glu
190 625          630          635          640
193 Tyr Val Tyr Glu Phe Arg Asp Lys Leu Cys Gly Pro Tyr Glu Lys Phe
194          645          650          655
197 Ile Cys Glu Gln Asp His Gln Asn Phe Leu Arg Leu Leu Thr Glu Thr
198          660          665          670
201 Glu Asp Trp Leu Tyr Glu Glu Gly Glu Asp Gln Ala Lys Gln Ala Tyr
202          675          680          685
205 Val Asp Lys Leu Glu Glu Leu Met Lys Ile Gly Thr Pro Val Lys Val
206          690          695          700
209 Arg Phe Gln Glu Ala Glu Glu Arg Pro Lys Met Phe Glu Glu Leu Gly
210 705          710          715          720
213 Gln Arg Leu Gln His Tyr Ala Lys Ile Ala Ala Asp Phe Arg Asn Lys
214          725          730          735
217 Asp Glu Lys Tyr Asn His Ile Asp Glu Ser Glu Met Lys Lys Val Glu
218          740          745          750
221 Lys Ser Val Asn Glu Val Met Glu Trp Met Asn Asn Val Met Asn Ala
222          755          760          765
225 Gln Ala Lys Lys Ser Leu Asp Gln Asp Pro Val Val Arg Ala Gln Glu
226          770          775          780
229 Ile Lys Thr Lys Ile Lys Glu Leu Asn Asn Thr Cys Glu Pro Val Val
230 785          790          795          800
233 Thr Gln Pro Lys Pro Lys Ile Glu Ser Pro Lys Leu Glu Arg Thr Pro
234          805          810          815
237 Asn Gly Pro Asn Ile Asp Lys Lys Glu Glu Asp Leu Glu Asp Lys Asn
238          820          825          830
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251 <212> TYPE: DNA
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259 ttctcccagg gtttcttata agccagccgc cgctgtcccc gggggagtag gaggtcctg 180
261 acaggccgcg gctgtctgtg tgtccttctg agtgtcagag gaacggccag accccgcggg 240
263 ccggagcaga acgcggccag ggcagaaagc ggcggcagga gaagcaggca gggggccgga 300
265 ggacgcagac cgagaccgga ggcggaggcg gaccgcgagc cggccatgtc ggtggtgggg 360
267 ttggacgtgg gctcgcagag ctgctacatc gcggtagccc gggccggggg catcgagacc 420
269 atcgccaatg agttcagcga ccggtgcacc ccgtcagtc taccatttgg atcaaaaaat 480
271 agaacaatcg gagttgcagc caaaaatcag caaatcactc atgcaaacia tacggtgtct 540

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275	aacttgagtt	acgatttggg	tccattgaaa	aatggtggag	ttggaataaa	ggtaatgtac	660
277	atgggtgaag	aacatctatt	tagtgtggag	cagataacag	ccatgttggt	gactaagctg	720
279	aaggaaactg	ctgaaaacag	cctcaagaaa	ccagtaacag	attgtgttat	ttcagtcctc	780
281	tccttcttta	cagatgctga	gaggcgatct	gtgttagatg	ctgcacagat	tgttgcccta	840
283	aactgtttta	gacttatgaa	tgacatgaca	gctgttgctt	tgaattacgg	aatttataag	900
285	caggatctcc	caagcctgga	tgagaaacct	cggatagtg	ttttgttgga	tatgggacat	960
287	tcagcttttc	aagtgtctgc	ttgtgctttt	aacaagggaa	aattgaagg	actgggaaca	1020
289	gcttttgatc	ctttcttagg	aggaaaaaac	ttcgatgaaa	agtttagtga	acatttctgt	1080
291	gcagaattta	aaactaagta	caagttggat	gcaaaatcca	aaatacagac	actcctacgt	1140
293	ctgtatcagg	aatgtgaaaa	actgaaaaag	ctaagagct	ctaacagcac	agaccttcca	1200
295	ctgaatatcg	aatgctttat	gaatgataaa	gatgtttccg	gaaagatgaa	caggtcacia	1260
297	tttgaagaac	tctgtgctga	acttctgcaa	aagatagaag	tacctcttta	ttcactgttg	1320
299	gaacaaactc	atctcaaagt	agaagatgtg	agtgcagttg	agattgttgg	aggcgctaca	1380
301	cgaattccag	ctgtgaagga	aagaattgcc	aaattctttg	gaaaagatat	tagcacaaca	1440
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305	gcatttaaa	ttagagaatt	ttccgtcaca	gatgcagttc	cttttccaat	atctctgatc	1560
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317	aatgaaatgt	cttctgaagc	tgacatggag	tgtctgaatc	agagaccacc	agaaaaccca	1920
319	gacactgata	aaaatgtcca	gcaagacaac	agtgaagctg	gaacacagcc	ccaggtaaaa	1980
321	actgatgctc	aacaaacctc	acagtctccc	ccttcacctg	aacttacctc	agaagaaaac	2040
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331	agagacaagc	tgtgtggacc	atatgaaaaa	tttatatgtg	agcaggatca	tcaaaatttt	2340
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351	taccctaattg	agaaaaatcc	tgttaatatg	gacttggact	agataacctt	aaattggcct	2940
353	attccttcaa	ttaataaaat	atttttgcca	tagtatgtga	ctctacataa	catactgaaa	3000
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357	aaaaagctta	agtctgtagt	ctttatgatc	ctaaaaggga	aaattgcctt	ggtaactttc	3120
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363	ggctgtgatt	aaaatcttta	agcatttgtt	cctgccaagg	tagttttctt	gcattttgct	3300
365	ctccattcag	catgtgtgtg	ggtgtggatg	tttataaaca	agactaagtc	tgacttcata	3360
367	agggctttct	aaaaccattt	ctgtccaaga	gaaaatgact	ttttgctttg	atattaaaaa	3420
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371 aactttctct ctactatac agtatattgt caatgtgaaa gtgtggaatg gaagaaatgt. 3540
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375 ggtgtcattt t 3611
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384 <223> OTHER INFORMATION: immune-stimulating peptide
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417 1 5 10
420 <210> SEQ ID NO: 6
421 <211> LENGTH: 9
422 <212> TYPE: PRT
423 <213> ORGANISM: Artificial Sequence
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426 <223> OTHER INFORMATION: immune-stimulating peptide
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431 1 5
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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/525,831

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